Fakir Apparels Ltd.
(Extension)

A-127-131,135-138,142-145, B-501-503, BSCIC Hosiery Ind. Estate, Fatullah, Narayanganj

(23.622441, 90.480205)

14 November 2023 & 1 January 2024




1. Building Information

- FAL-17/A (Departmental Store): The structure is a single-storied steel shed.
- FAL-27/A (Fabric Store): The structure is a single-storied steel shed.
- FAL-28 (Central Chemical Store): This is a single-storied steel shed.
- FAL-29 (Office and Maintenance Workshop): This is a single-storied steel shed.
- FAL-30 (ETP Chemical and Sludge Storage Area): This is a single-storied steel shed.
- FAL-31 (Boiler Shed-2): This is a single-storied steel shed.
- FAL-32 (Boiler Shed): This is a single-storied steel shed.
- FAL-33 (Washing and Dyeing Finishing): This is a single-storied steel shed.
- FAL-34 (Knitting): The structure is a single-storied steel shed.
- FAL-35 (Knitting): The structure is a single-storied steel shed.
- FAL-36 (Maintenance Workshop): The structure is a single-storied steel shed with a mezzanine floor.
- FAL-37 (Canteen): The structure is a two storied-steel shed.
- FAL-39 (Hot Water Reservoir): This is a single RC Water tank reservoir.
- FAL-40 (Medical and Day Care): This is a four-storied (G+3) RC building.
- FAL-42 (Dyeing Finishing Shed): This is a single-storied steel shed.
- FAL-43 (Utility): Utility Building is a two (G+1) storied reinforced concrete building.
- FAL-44 (Fabric Store): This is a single storied steel shed.
- FAL-45 (Dyeing Finishing): This is a single storied steel shed.
- FAL-46 (Fire pump room): This is a single-storied RC structure.
- FAL-47 (Dyeing Finishing): This is a single storied steel shed.
- FAL-48 (Boiler Shed): This is a single storied steel shed.
- FAL-49 (Warehouse-Woven unit): This is a single storied steel shed.
- FAL-50 (Store Building-Warehouse): This is a six-storied steel building.
- FAL-51 (Boiler Shed): This is a single storied steel shed.
- FAL-52 (Finished Carton-Warehouse): This is a single storied steel shed.
- FAL-53 (Yarn Store): This is a single storied steel shed.
- FAL-54 (Car Parking): This is a single-storied steel shed.
- FAL-55 (Dyeing Finishing Shed): This is a single-storied steel shed.
- FAL-56 (Wastage Shed): This is a single storied steel shed.
- FAL-57 (Yarn Storage Shed): This is a single storied steel shed.

2. Observations

Observation 1: Apparently inadequate members and non-engineered connection (FAL-17A).

Apparently inadequate purlin

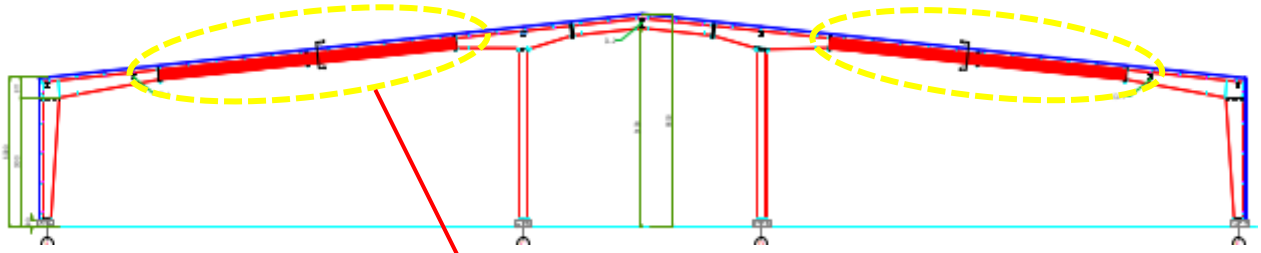
Non-engineered connection

Description: Apparently inadequate members and non-engineered connections were observed. The building engineer is required to check the member, connection and stability system of the structure and suggest proper remediation accordingly.

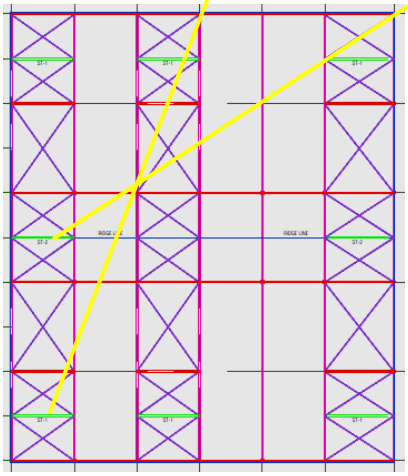
Observation 2: Horizontal crack on a brick wall (FAL-17A).

Description: During inspection, horizontal cracks were observed on the brick wall. The building engineer is required to identify the reason for the crack and take necessary remedial measures to repair the cracks accordingly.

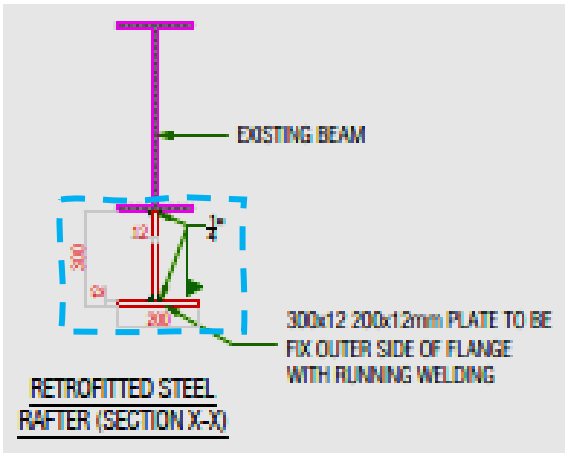
Observation-3: Incomplete retrofitting works (FAL-27A).



Proposed retrofitting on rafter in interior grid



Proposed strut layout



Proposed additional tee bottom of the rafter

Description: The factory has prepared the DEA of the shed. As per the recommendation of the DEA, some retrofitting works are suggested but no retrofitting work was carried out. The building engineer is required to submit the DEA report to RSC for review before the start of retrofitting work.

Observation-4: Faulty installation of bracings (FAL-27A).



Description: During the inspection, faulty installation of bracings was observed. The building engineer is required to reinstall the bracings in the right position.

Observation-5: Connection gap between connection plates (FAL-27A).



Description: During inspection, connection gap was observed at some locations. The building engineer is required to fill the gaps with shim plate.

Observation-6: Lack of lateral stability. (FAL 28- Central Chemical Store)

Description: The structure has no lateral load transfer media (compression strut) along long direction. During the inspection no design documents were available for this shed.

The building engineer is required to carry out Engineering Assessment (EA) to check the lateral stability and adequacy of all structural elements of the structure based on in-situ material strength and software-based analysis which shall be prepared in compliance with section 1.9.1, part-6 of BNBC.

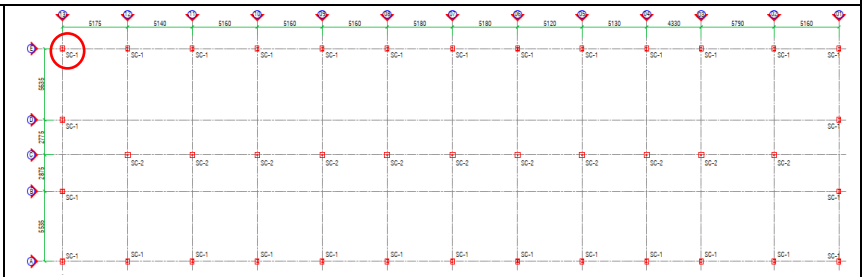
Observation-7: Discrepancies in as built drawings. (FAL 28- Central Chemical Store)

SCHEDULE OF COLUMN

NAME	D (mm)	TW (mm)	BF (mm)	TF (mm)
SC1	200	5	100	8
SC2	100Ø	5	PIPE	

Description: During inspection, mismatches were found between onsite condition and as-built drawing. Steel pipe column SC2 was found dia 115 mm instead of dia 100 mm. The building engineer is required to survey the full structure and produce accurate as-built drawings.

Observation-9: Distorted steel column. (FAL 28- Central Chemical Store)



Description: The corner steel column was found distorted. The building engineer is required to investigate the reason for such distortion and take necessary action for remedial procedures.

Observation-10: Missing bolts. (FAL 28- Central Chemical Store)

Description: During the inspection, missing bolts were observed at several places in this structure. The building engineer is required to identify all the missing bolts and provide adequate bolts as required.

Observation-11: Lack of design report (FAL 28- Office & Maintenance Workshop).

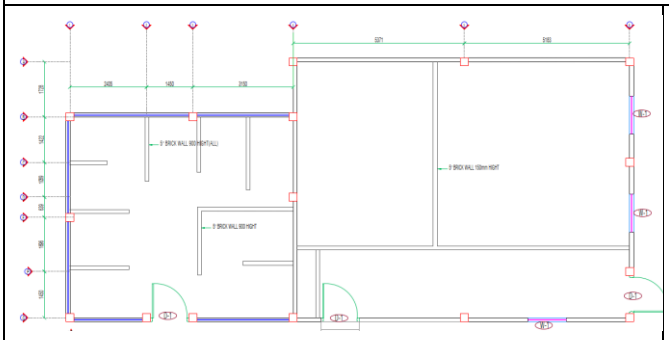
Description: As per BNBC, every building or structure designed shall have its design documents prepared following the provision of Section 1.9.1. During inspection, the design report was not available on site.

The building engineer is required to prepare a set of design documents including as-built drawings, a live load plan at the roof and a design report based on in-situ material strength and software-based analysis which shall be prepared in compliance with section 1.9.1, part-6 of BNBC.

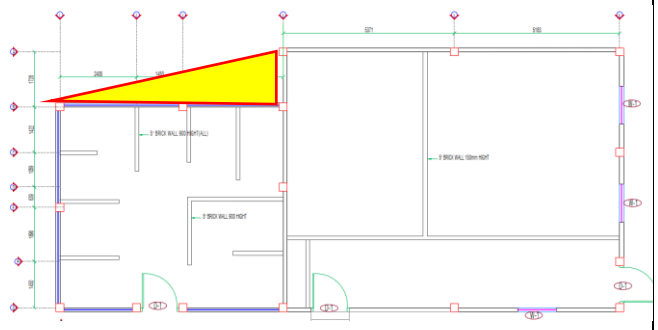
Observation-12: Apparently non-engineered roof shed (FAL 30- ETP chemical & sludge storage area)

Description: Lack of lateral stability system (strut and bracing), apparent inadequate members and non-engineered connection were observed. The building engineer is required to check the member, connection and stability system of the structure and suggest proper alternatives accordingly.

Observation 13: Discrepancies in as-built drawings. (FAL 30- ETP chemical & sludge storage area)



Architectural drawing



Actual shape of FAL 30

Description: During the inspection, a mismatch was found in the building plan shape. The building engineer is required to survey the full structure and produce accurate as-built drawings.

Observation-14: Brick wall crack. (FAL 30- ETP chemical & sludge storage area)

Description: During inspection, a brick wall crack was observed at FAL 30- ETP chemical & and sludge storage area. The building engineer is required to investigate the reason for the crack and suggest remedial measures as required.

Observation-15: RC Column crack. (FAL 31- Boiler shed)


Description: During the inspection, a cracked RC column (Grid-B, 3) was observed at FAL 31- Boiler shed. The factory must immediately engage a consultant to investigate the crack. Any safety measures, if required as suggested by the consultant, must be taken immediately to ensure safety.

Observation-16: Lack of design report. (FAL 31- Boiler shed)


Description: As per BNBC, every building or structure designed shall have its design documents prepared following the provision of Section 1.9.1. During inspection, the design report was not available on site.

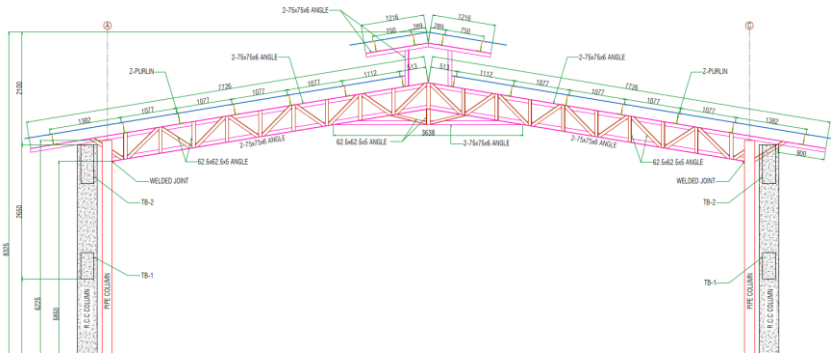
The building engineer is required to prepare a set of design documents including as-built drawings, a live load plan at the roof and a design report based on in-situ material strength and software-based analysis which shall be prepared in compliance with section 1.9.1, part-6 of BNBC.

Observation-17: Lack of design report. (FAL 32- Boiler Room)


Description: As per BNBC, every building or structure designed shall have its design documents prepared following the provision of Section 1.9.1. During inspection, the design report was not available on site.

The building engineer is required to prepare a set of design documents including as-built drawings, a live load plan at the roof and a design report based on in-situ material strength and software-based analysis which shall be prepared in compliance with section 1.9.1, part-6 of BNBC.

Observation-18: Discrepancies in as-built drawings. (FAL 32- Boiler Room)

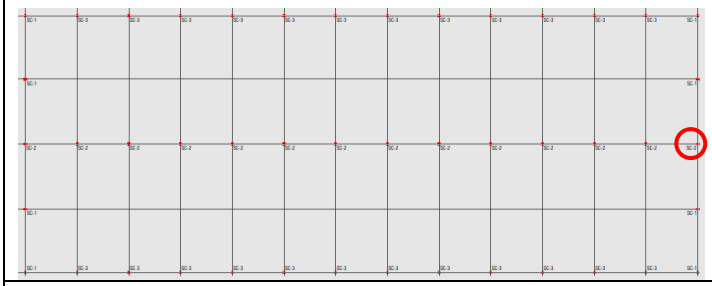


Description: During the inspection, mismatches were found in the roof truss between onsite condition and the as-built drawing. The top & bottom cord was found 2L 63x63x4 mm instead of 2L 75x75x6 mm. The building engineer is required to survey the full structure and produce accurate as-built drawings.

Observation-19: Remediation work raised from fire incident (FAL-33, Washing and Dyeing Finishing)

Description: At the time of inspection remediation work due to the fire incident was ongoing at the time of inspection. The building engineer is required to complete the remediation work as per RSC accepted drawing and timeline.

Observation-20: Discrepancies in as-built drawing (FAL-34).



Steel column layout

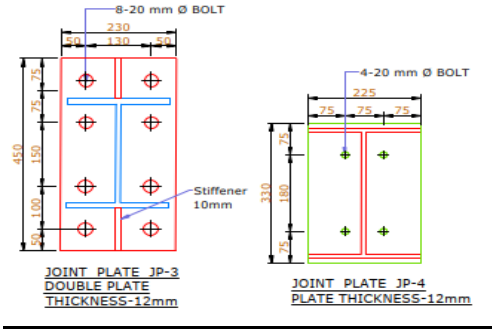
SCHEDULE OF COLUMN

NAME	D (mm)	TW (mm)	BF (mm)	TF (mm)
SC1	300	5	200	8
SC2	300	5	200	10
SC3	300~550	5	200	10

Schedule of steel column

Actual flange thickness

Onsite condition (JP3)

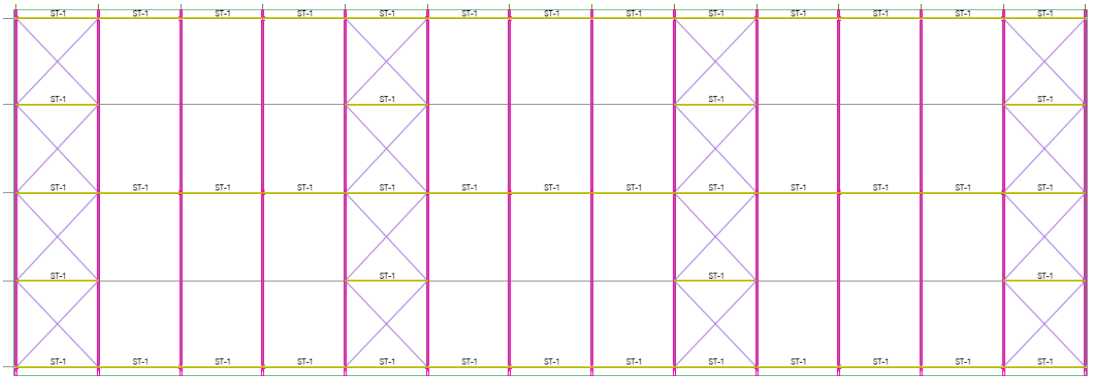


Connection Details: JP3 & JP4

Onsite condition (JP4)

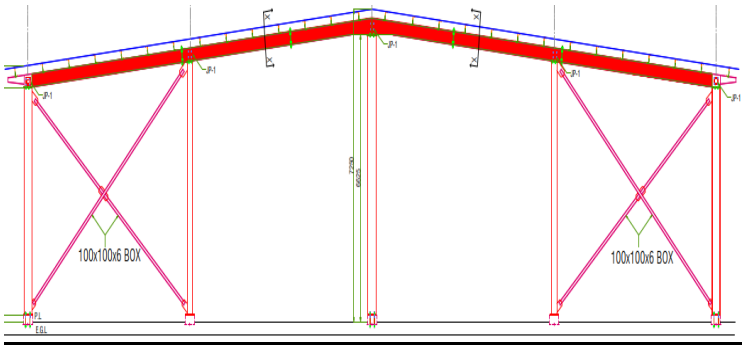
Description: During the inspection, the flange thickness of the marked steel column was found 8mm instead of 10 mm and the bolt diameter of connection JP3 & JP4 were observed below 16mm instead of 20 mm. The building engineer is required to survey the whole structure and produce as-built drawings as per actual site conditions.

Observation-21: Incomplete retrofitting works (FAL-34).



Proposed compression strut layout

No compression strut in the long direction



Proposed wall bracing and rafter retrofitting

No wall bracing and rafter retrofitting

Description: The factory has prepared the DEA of the shed. As per the recommendation of DEA, some retrofitting works were suggested but no retrofitting work was carried out.

Building engineer is required to submit the DEA report to RSC for review before the start of retrofitting work.

Observation-22: Corrosion on steel member (FAL-34).

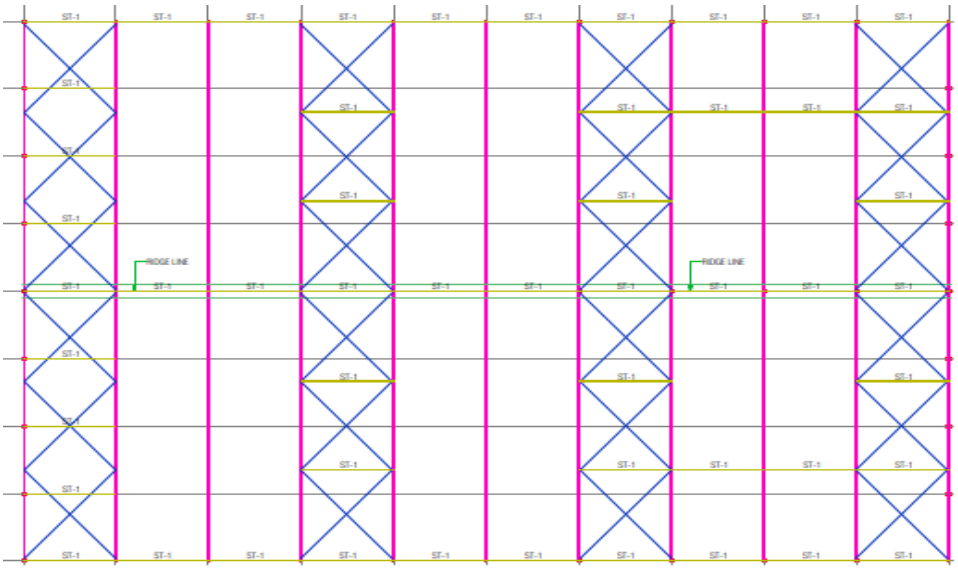


Description: During inspection, corrosion was found on several steel members. Factory is required to remove rust and apply rust-proof paint on steel members.

Observation-23: Connection gap between connection plates (FAL-34).

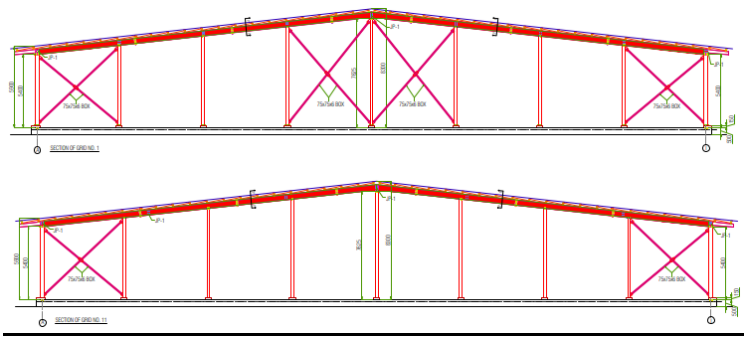

Description: During the inspection, a connection gap was observed at some locations. The building engineer is required to fill the gaps with shim plate.

Observation-24: Incomplete retrofitting works (FAL-35).



Proposed compression strut layout

No compression strut in the long direction



Proposed wall bracing and rafter retrofitting

No wall bracing and rafter retrofitting

Description: The factory has prepared the DEA of the shed. As per the recommendation of the DEA, some retrofitting works were suggested but no retrofitting work was carried out.

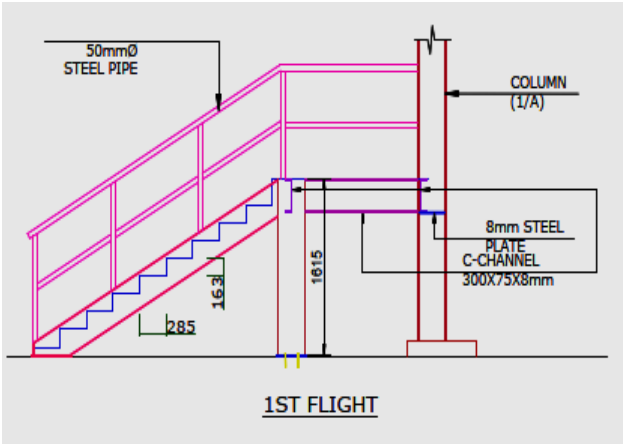
Building engineer is required to submit the DEA report to RSC for review before the start of retrofitting work.

Observation-25: Lack of design documents (FAL-36).

Description: As per BNBC, every building or structure designed shall have its design documents prepared following the provision of Section 1.9.1. During the inspection, the design report and soil test report were not available on site.

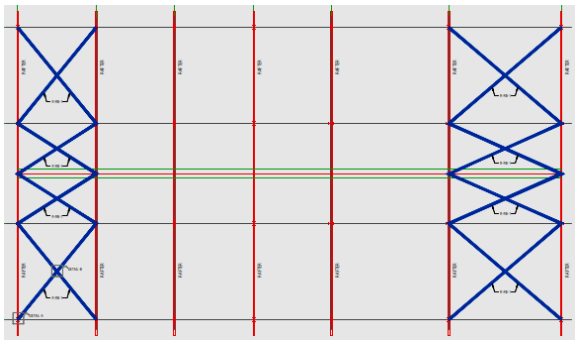
The building engineer is required to prepare a set of design documents including as-built drawings, live load plan and a design report based on in-situ material strength and software-based analysis which shall be prepared in compliance with section 1.9.1, part-6 of BNBC.

Observation-26: Discrepancies in as-built drawing (FAL-37).

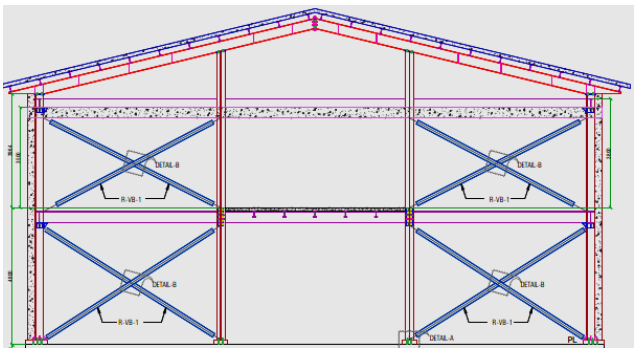


Description: During the inspection, the C-channel depth of the stairs was found 275mm instead of 300 mm. The building engineer is required to survey the whole structure and produce an as-built drawing as per actual site condition.

Observation-27: Incomplete retrofitting works (FAL-37).



Proposed roof bracing



Proposed wall bracing

No roof or wall bracing

Description: The factory has prepared the DEA of the shed. As per the recommendation of the DEA, some retrofitting works are suggested but no retrofitting work was carried out.

Building engineer is required to submit the DEA report to RSC for review before the start of retrofitting work.

Observation-28: Absence of as built drawing. (FAL 39- RCC water tank)

Description: During inspection, no as-built structural drawing was found on site. The building engineer is required to prepare accurate as-built drawings for the structure.

Observation-29: Lack of design report. (FAL 40- Medical & daycare)

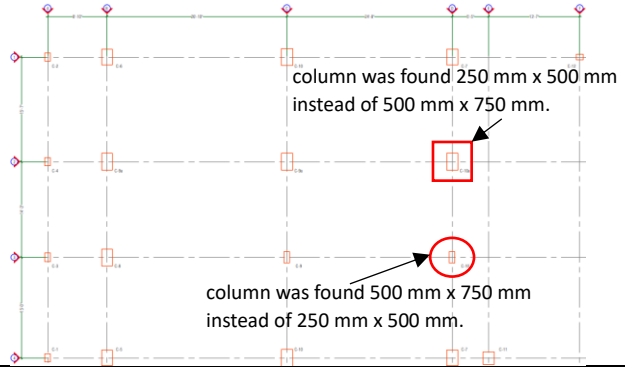
Description: As per BNBC (part 6), every building or structure designed shall have its design documents prepared following the provision of Section 1.9.1. The design document shall include a design report, and a set of structural drawings, which shall be prepared in compliance with section 1.9.1.1 and section 1.9.1.2 of BNBC (part 6).

At the time of inspection, no design report was available for Medical & and daycare and external self-supported steel stairs. The building engineer is required to prepare a set of design documents including as-built drawings, a live load plan at the roof and a design report based on in-situ material strength and software-based analysis which shall be prepared in compliance with section 1.9.1, part-6 of the BNBC.

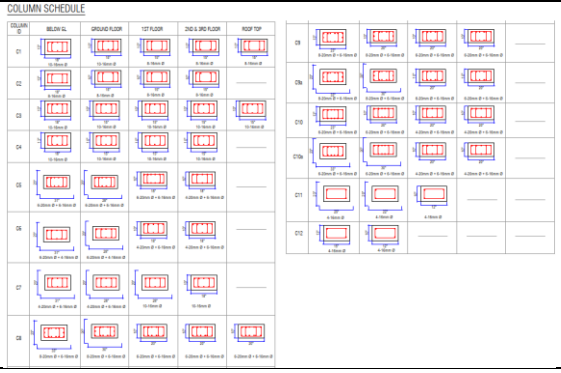
Observation-30: Inconsistency in drawing. (FAL 40- Medical & daycare)

Wrong column retrofitted

External Steel stair connected with Medical & daycare building.



Column Layout



Existing Colum schedule

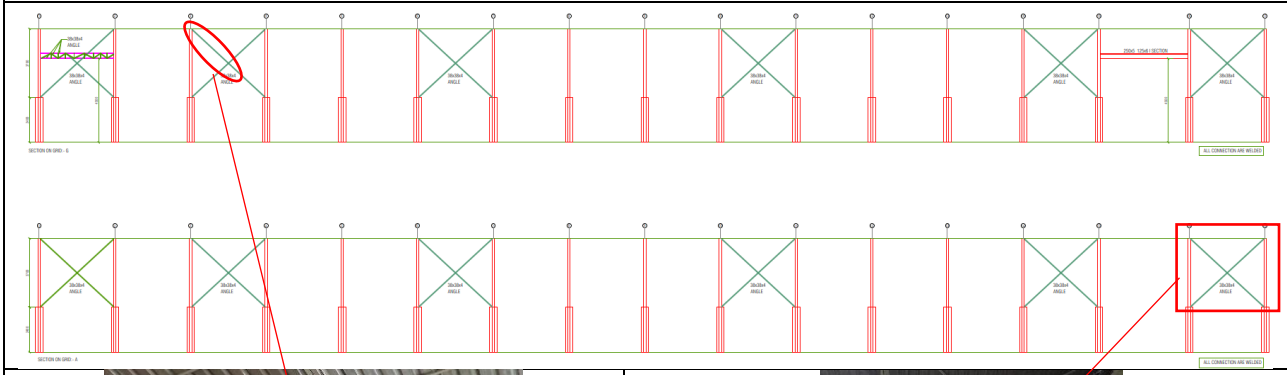
Description: During the inspection, a mismatch was found between the drawing and on-site condition. As per the drawing, the wrong column was found retrofitted which was marked in the figure. Retrofitting details of column and foundation were found missing in the drawing. Also, external steel stairs were found connected with structural members of Medical & day care building. The building engineer is required to survey the whole structure and update the as-built drawings and perform Detail Engineering Assessment (DEA).

Observation-31: Lack of design report. (FAL 42- Dyeing Finishing)

Description: As per BNBC, every building or structure designed shall have its design documents prepared following the provision of Section 1.9.1. During inspection, the design report was not available on site.

The building engineer is required to prepare a set of design documents including as-built drawings, a live load plan at the roof and a design report based on in-situ material strength and software-based analysis which shall be prepared in compliance with section 1.9.1, part-6 of BNBC.

Observation-32: Discrepancies in as-built drawings. (FAL 42- Dyeing Finishing)



Description: During the inspection, mismatches were found in the vertical bracing layout between the onsite condition and the as-built drawing. The building engineer is required to survey the full structure and produce accurate as-built drawings.

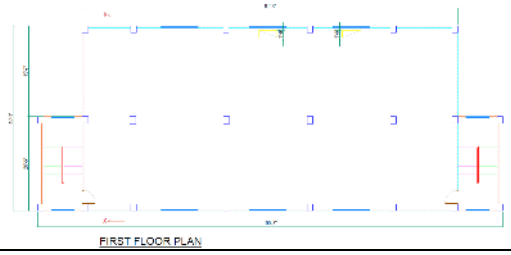
Observation-33: Lack of design report (FAL-43).

Description: As per BNBC, every building or structure designed shall have its design documents prepared following the provision of Section 1.9.1. The design documents shall include as-built drawings, material test reports, a load plan and a design report which shall be prepared in compliance with section 1.9.1, part-6 of BNBC.

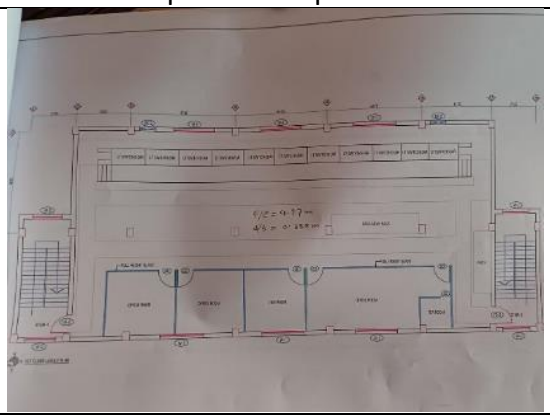
During the inspection, the design report, load plan and material test reports were not available on site. The building engineer is required to prepare a design report based on in-situ material strength and software-based analysis and submit it to RSC for review.

Observation-34: Discrepancies in as-built drawings (FAL-43).

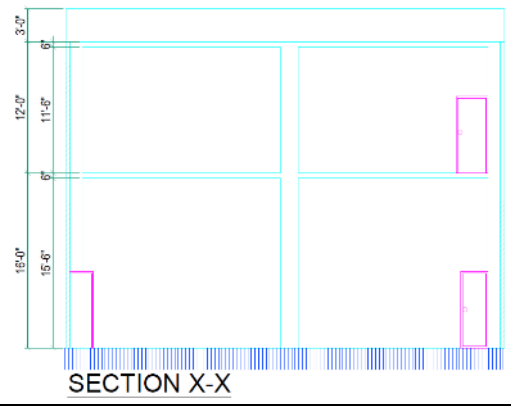
Floor buildup below LT panels at 1st floor



As built architectural drawing



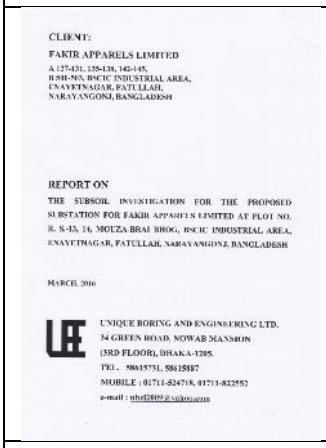
Floor to ceiling height (4.27 m)



As built architectural drawing

Description: During the inspection, mismatches were found between the onsite condition and the as-built drawing. Floor built observed on 1st floor below LT panels. Also. The floor-to-ceiling height doesn't match the as-built drawing. A building engineer is required to prepare accurate as-built drawings.

Observation-35: Inconsistency in soil test report (FAL-43).

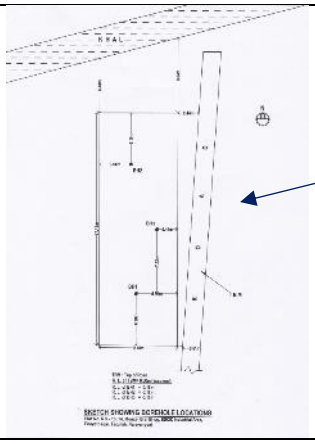


CLIENT:
FAKIR APPARELS LIMITED
A 127-131, 135-138, 142-145,
H 501-503, BSCIC INDUSTRIAL AREA,
ENAYETNAGAR, FATULLAH,
NARAYANGONJ, BANGLADESH

REPORT ON
THE SUBSOIL INVESTIGATION FOR THE PROPOSED SUBSTATION FOR FAKIR APPARELS LIMITED AT PLOT NO. R. S-13, 14, MOUZA-BRAI BHOG, BSCIC INDUSTRIAL AREA, ENAYETNAGAR, FATULLAH, NARAYANGONJ, BANGLADESH

MARCH, 2016

UNIQUE BORING AND ENGINEERING LTD.
34 GREEN ROAD, NOWAB MANSION
(3RD FLOOR), DHAKA-1205.
TEL : 58615731, 58615887
MOBILE : 01711-824718, 01711-822552
e-mail : ubrd2009@yahoo.com



Soil test report of 5-storied building

Location of the 5 storied building from FAL-43

Description: The soil test report of the FAL-43 (Utility) building is taken from a 5-story factory building, which is located far away from the site of this building. This may result in inconsistencies in soil profile and geological conditions which will lead to inaccurate estimates of the extent and character of the subsurface.

The building engineer is required to carry out new soil tests according to BNBC requirements and prepare a design report based on on-site soil conditions.

Observation-36: Cracks in brick wall of stairs at roof (FAL-43).

Description: Crack found on the brick wall of stair at roof. Building engineer is required to identify the reason of crack, take necessary remedial measure to repair the wall accordingly.

Observation-37: Cracks in beam of stairs at roof (FAL-43).

Observations: Cracks found on floor beam of stair at roof. Factory is required to identify the reason of crack, prepare crack investigation report, and take necessary remedial measure to repair the crack as per the suggestion of building engineer.

Observation-38: Lack of design report (FAL-44).

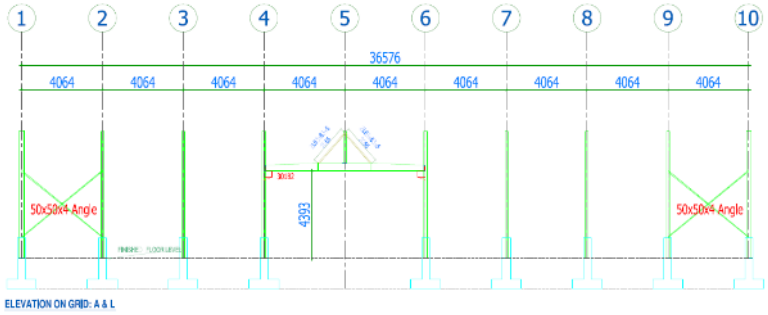
Description: As per BNBC, every building or structure designed shall have its design documents prepared in accordance with the provision of Section 1.9.1. The design documents shall include as-built drawings, material test reports and a design report which shall be prepared in compliance with section 1.9.1, part-6 of BNBC.

During the inspection, design report was not available on site. The building engineer is required to prepare a design report based on in-situ material strength & software-based analysis and submit it to RSC for review.

Observation-39: Discrepancies in as built drawings (FAL-44).

Steel truss along both directions

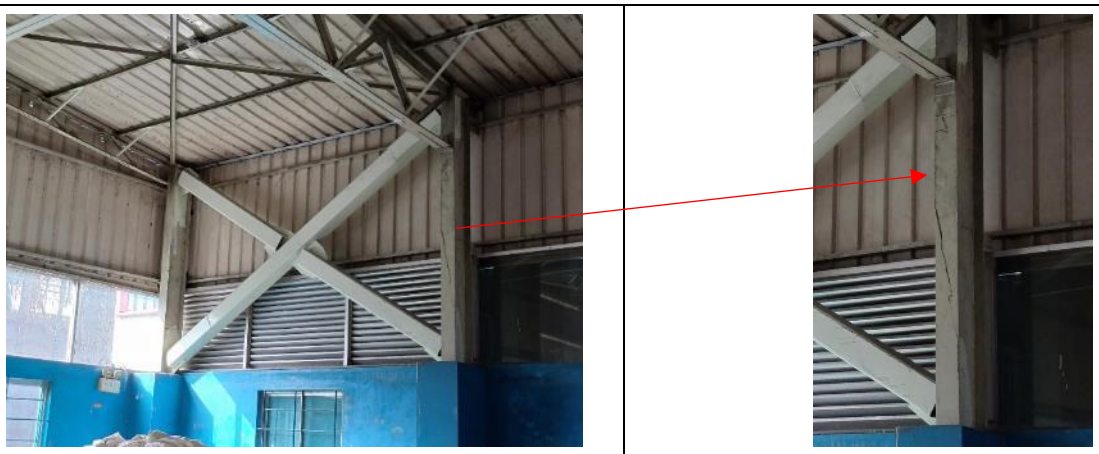
Misalignment of steel truss



Frame section along Grid A & L

Description: According to the on-site condition, steel truss is connected to steel columns along both directions. The steel truss alignment is not straight along short direction. In as built structural drawing, truss is not shown in the short direction both in plan and elevation. The building engineer is required to prepare accurate as-built drawings based on actual site condition.

Observation-40: Distorted Steel Column (FAL-44).



Description: Steel column of GL 9-K found distorted. Factory is required to identify the reason of crack, prepare investigation report, and take necessary remedial measure to repair the crack as per the suggestion of building engineer.

Observation-41: Lack of design documents (FAL-45).

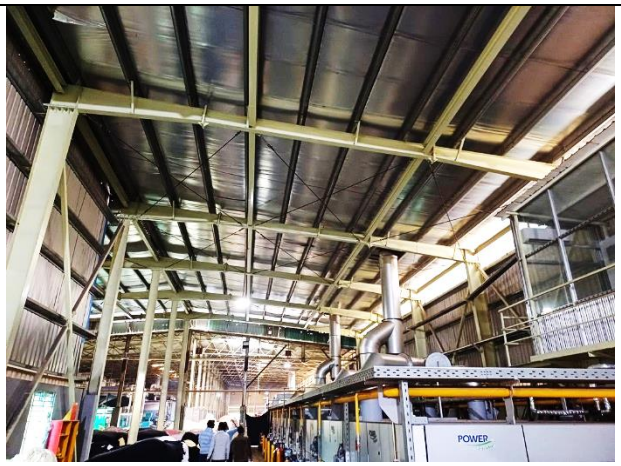

Description: As per BNBC, every building or structure designed shall have its design documents prepared in accordance with the provision of Section 1.9.1. During the inspection, the design report and soil test report were not available on site.

The building engineer is required to prepare a set of design documents including as built drawings, live load plan and a design report based on in-situ material strength and software-based analysis which shall be prepared in compliance with section 1.9.1, part-6 of BNBC.

Observation-42: Horizontal crack on brick wall (FAL-46).


Description: During inspection, horizontal cracks were observed on the brick wall. The building engineer is required to identify the reason for the crack, take necessary remedial measure to repair the cracks accordingly.

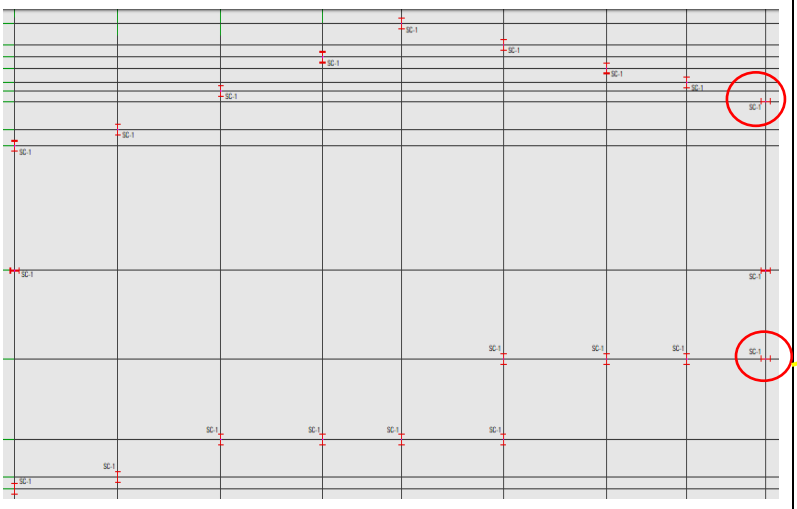
Observation-44: Lack of design documents (FAL-47).



Description: As per BNBC, every building or structure designed shall have its design documents prepared in accordance with the provision of Section 1.9.1. During the inspection, the design report and soil test report were not available on site.

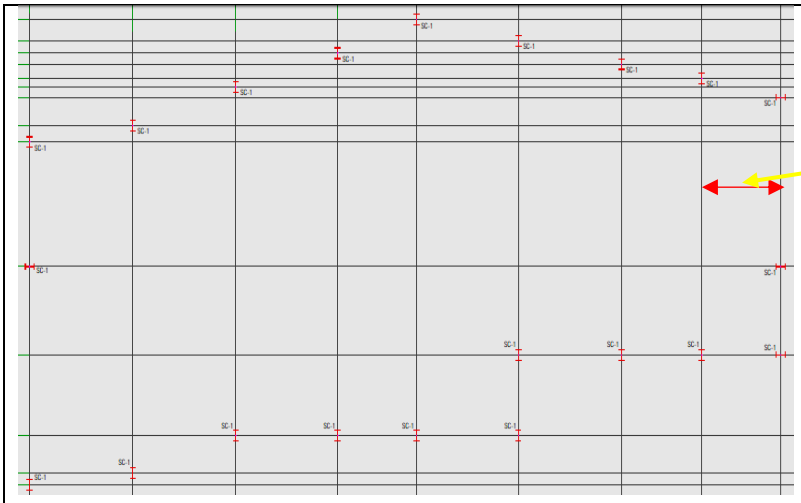
The building engineer is required to prepare a set of design documents including as built drawings, live load plan and a design report based on in-situ material strength and software-based analysis which shall be prepared in compliance with section 1.9.1, part-6 of BNBC.

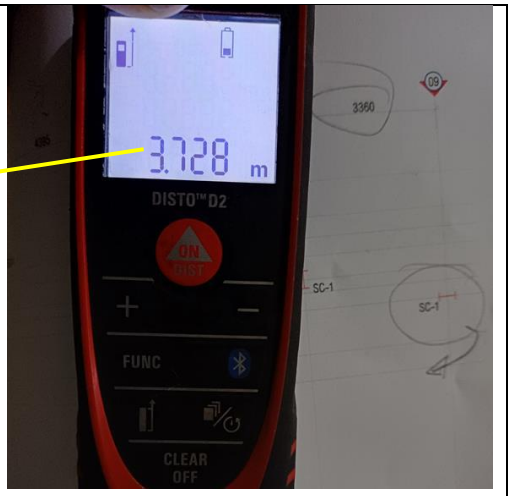
Observation-45: Discrepancies in as-built drawing (FAL-48).



Steel column layout

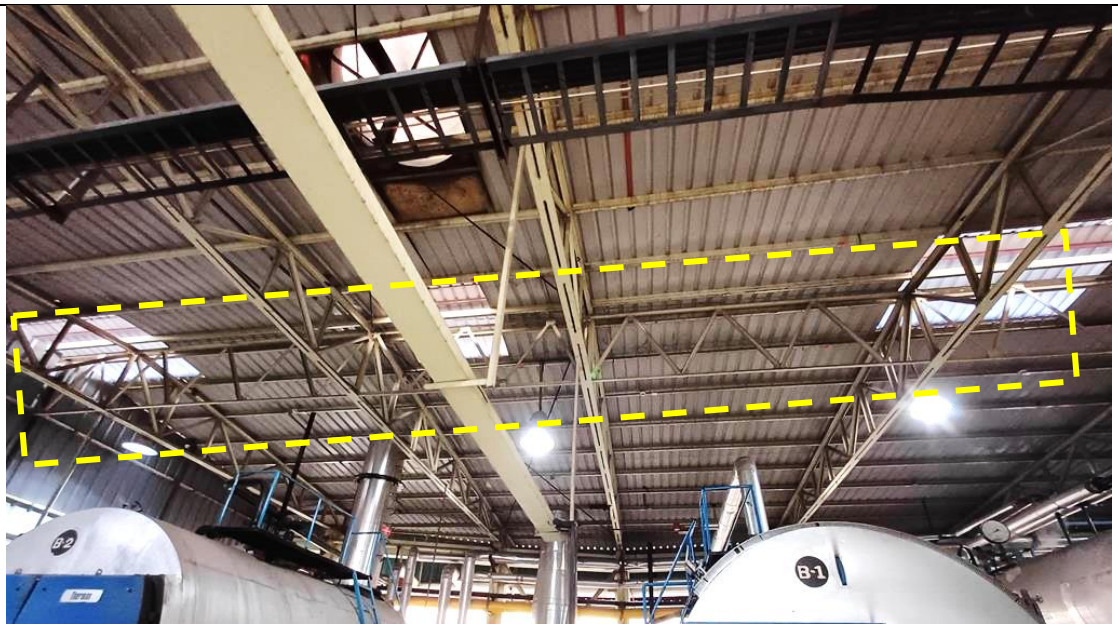
Orientation mismatch - marked columns





Marked grid dimension was observed 3.728 m instead of 3.36 m

The thickness of wall bracing was found 5.3 mm instead of 6 mm



No drawing of truss in the long direction

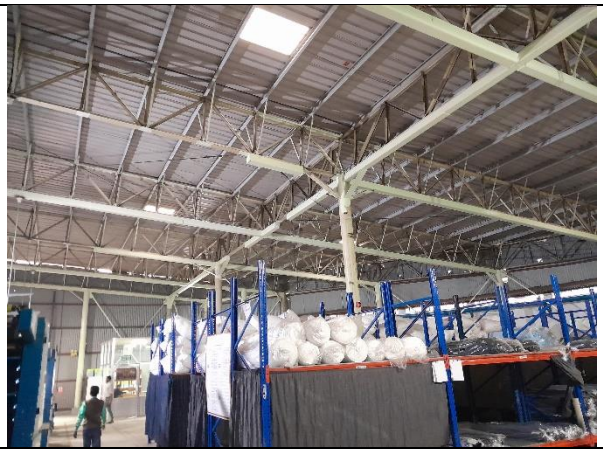
Description: During the inspection, mismatches (column orientation, wall bracing size, grid dimension, no drawing of truss in a long direction) were observed. The building engineer is required to survey the whole structure and produce as-built drawings as per actual site conditions.

Observation-46: Lack of design documents (FAL-48).


Description: As per BNBC, every building or structure designed shall have its design documents prepared following the provision of Section 1.9.1. During the inspection, the design report and soil test report were not available on site.

The building engineer is required to prepare a set of design documents including as-built drawings, live load plan and a design report based on in-situ material strength and software-based analysis which shall be prepared in compliance with section 1.9.1, part-6 of BNBC.

Observation-47: Lack of design report. (FAL 49- Wearhouse)

Description: As per BNBC, every building or structure designed shall have its design documents prepared following the provision of Section 1.9.1. The factory carried out retrofitting on the roof system in 2021. However, during the inspection, the design report was not available on-site.

The building engineer is required to prepare a set of design documents including as-built drawings, a live load plan at the roof and a design report based on in-situ material strength and software-based analysis which shall be prepared in compliance with section 1.9.1, part-6 of BNBC.

Observation-48: Lack of design documents (FAL-50).

Description: As per BNBC, every building or structure designed shall have its design documents prepared following the provision of Section 1.9.1. During the inspection, the design report and soil test report were not available on site.

The building engineer is required to prepare a set of design documents including as-built drawings, live load plan and a design report based on in-situ material strength and software-based analysis which shall be prepared in compliance with section 1.9.1, part-6 of BNBC.

Observation-49: Lack of design documents (FAL-51).

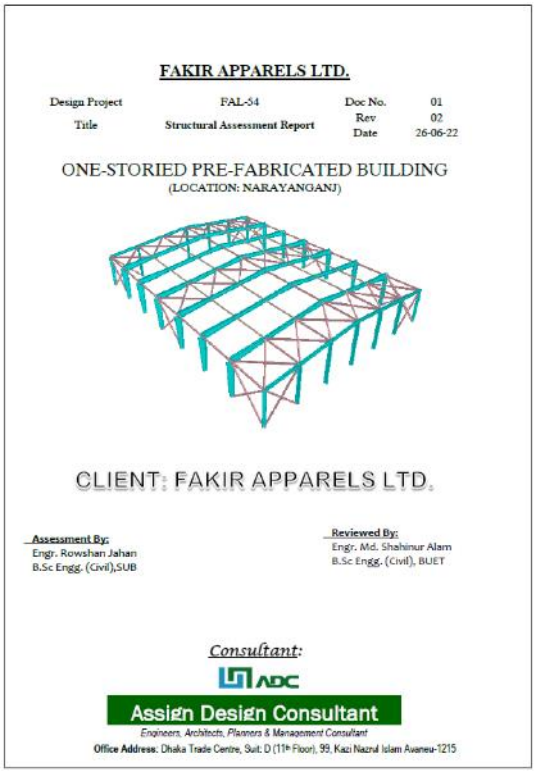
Description: As per BNBC, every building or structure designed shall have its design documents prepared following the provision of Section 1.9.1. During the inspection, the design report and soil test report were not available on site.

The building engineer is required to prepare a set of design documents including as built drawings, live load plan and a design report based on in-situ material strength and software-based analysis which shall be prepared in compliance with section 1.9.1, part-6 of BNBC.

Observation-50: Lack of design documents (FAL-52).

Description: As per BNBC, every building or structure designed shall have its design documents prepared following the provision of Section 1.9.1. During the inspection, the design report and soil test report were not available on site.
The building engineer is required to prepare a set of design documents including as-built drawings, live load plan and a design report based on in-situ material strength and software-based analysis which shall be prepared in compliance with section 1.9.1, part-6 of BNBC.

Observation-51: Inconsistency in design report (FAL-54).



FAKIR APPARELS LTD.

Design Project	FAL-54	Doc No.	01
		Rev	02
Title	Structural Assessment Report	Date	26-06-22

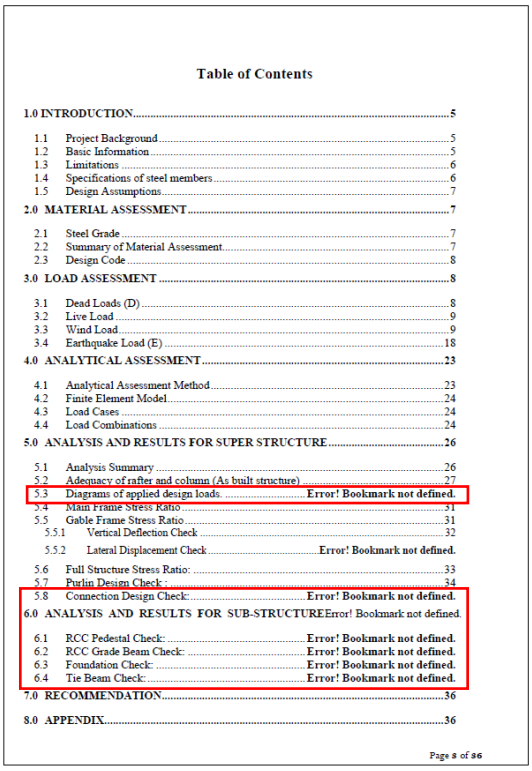
ONE-STORIED PRE-FABRICATED BUILDING
(LOCATION: NARAYANGANJ)

CLIENT: FAKIR APPARELS LTD.

Assessment By:
Engr. Rowshan Jahan
B.Sc Engg. (Civil),SUB

Reviewed By:
Engr. Md. Shahinur Alam
B.Sc Engg. (Civil), BUET

Consultant:
ADC
Assign Design Consultant
Engineers, Architects, Planners & Management Consultant
Office Address: Dhaka Trade Centre, Suit; D (11th Floor), 99, Kazi Nazrul Islam Avenue-1215



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Description: In the design report, steel connections, concrete members, and foundation adequacy checks are not provided. The building engineer is required to update the design report based on in-situ material strength, sub-surface condition and software-based analysis. Submit it to the RSC for review.

Observation-52: Lack of design documents (FAL-55).

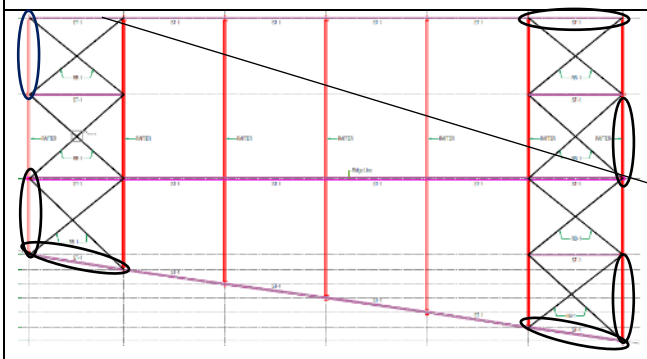
Description: As per BNBC, every building or structure designed shall have its design documents prepared following the provision of Section 1.9.1. During the inspection, the design report and soil test report were not available on site.

The building engineer is required to prepare a set of design documents including as-built drawings, live load plan and a design report based on in-situ material strength and software-based analysis which shall be prepared in compliance with section 1.9.1, part-6 of BNBC.

Observation-53: Misalignment of wall bracing (FAL-55).

Description: During the inspection, misalignment of wall bracing was observed. The building engineer is required to check the effect of misalignment of wall bracing or reinstall the bracing properly.

Observation-54: Bracing system is not symmetric (FAL-56, Wastage Shed)



Description: The bracing system of the shed is not symmetric. The building engineer is required to check the lateral stability of the shed.

3. Action Plan

Serial	Observation	Action Plan	Timeline
1	Apparently inadequate members and non-engineered connection (FAL-17A).	The building engineer is required to check the member, connection, and stability system of the structure.	within 6 weeks
2	Apparently inadequate members and non-engineered connection (FAL-17A).	Carry out suggested remedial works if required.	within 6 months
3	Horizontal crack on brick wall (FAL-17A).	The building engineer is required to identify the reason for the crack and take necessary remedial measures to repair the cracks accordingly.	within 6 weeks
4	Incomplete retrofitting works (FAL-27A).	The building engineer is required to submit an EA report to RSC for review before starting the remediation work.	within 6 weeks
5	Incomplete retrofitting works (FAL-27A).	Carry out suggested remedial works if required.	within 6 months
6	Faulty installation of bracings (FAL-27A).	The building engineer is required to reinstall the bracings in the right position.	within 6 months
7	Connection gap between connection plates (FAL-27A).	The building engineer is required to fill the gaps with shim plate.	within 6 weeks
8	Lack of lateral stability. (FAL 28- Central Chemical Store)	The building engineer is required to carry out an Engineering Assessment (EA) to check the lateral stability and adequacy of all structural elements of the structure based on in-situ material strength and software-based analysis which shall be prepared in compliance with section 1.9.1, part-6 of BNBC.	within 6 weeks
9	Lack of lateral stability. (FAL 28- Central Chemical Store)	Carry out suggested remedial works if required.	within 6 months
10	Discrepancies in as built drawings. (FAL 28- Central Chemical Store)	The building engineer is required to survey the full structure and produce accurate as-built drawings.	within 6 weeks
11	Distorted steel column. (FAL 28- Central Chemical Store)	The building engineer is required to investigate the reason for such distortion and take necessary action for remedial procedure.	within 6 weeks
12	Distorted steel column. (FAL 28- Central Chemical Store)	Carry out remedial work if required.	within 6 months

13	Missing bolts. (FAL 28- Central Chemical Store)	The factory is required to identify all the missing bolts and provide adequate bolts as required.	within 6 months
14	Lack of design report (FAL 28- Office & Maintenance Workshop).	The building engineer is required to prepare a set of design documents including as built drawings, live load plan at roof and a design report based on in-situ material strength and software-based analysis which shall be prepared in compliance with section 1.9.1, part-6 of BNBC.	within 6 weeks
15	Lack of design report (FAL 28- Office & Maintenance Workshop).	Carry out remedial work if required.	within 6 months
16	Apparently non engineered roof shed (FAL 30- ETP chemical & sludge storage area)	The building engineer is required to check the member, connection & stability system of the structure and suggest proper alternatives accordingly.	within 6 weeks
17	Apparently non engineered roof shed (FAL 30- ETP chemical & sludge storage area)	Carry out remedial work if required.	within 6 months
18	Discrepancies in as built drawings. (FAL 30- ETP chemical & sludge storage area)	The building engineer is required to survey the full structure and produce accurate as-built drawings.	within 6 weeks
19	Brick wall crack. (FAL 30- ETP chemical & sludge storage area)	The building engineer is required to investigate the reason for the crack and suggest remedial measure as required.	within 6 weeks
20	Brick wall crack. (FAL 30- ETP chemical & sludge storage area)	Carry out remedial work if required.	within 6 months
21	RC Column crack. (FAL 31- Boiler shed)	The factory must immediately engage a consultant to investigate the crack.	Immediate
22	RC Column crack. (FAL 31- Boiler shed)	Any safety measures, if required as suggested by the consultant, must be taken immediately to ensure safety.	Immediate
23	RC Column crack. (FAL 31- Boiler shed)	Carry out remedial works.	within 6 weeks
24	Lack of design report. (FAL 31- Boiler shed)	The building engineer is required to prepare a set of design documents including as built drawings, live load plan at roof and a design report based on in-situ material strength and software-based analysis which shall be prepared in compliance with section 1.9.1, part-6 of BNBC.	within 6 weeks

25	Lack of design report. (FAL 31- Boiler shed)	Carry out remedial work if required.	within 6 months
26	Lack of design report. (FAL 32- Boiler Room)	The building engineer is required to prepare a set of design documents including as built drawings, live load plan at roof and a design report based on in-situ material strength and software-based analysis which shall be prepared in compliance with section 1.9.1, part-6 of BNBC.	within 6 weeks
27	Lack of design report. (FAL 32- Boiler Room)	Carry out remedial work if required.	within 6 months
28	Discrepancies in as built drawings. (FAL 32- Boiler Room)	The building engineer is required to survey the full structure and produce accurate as-built drawings.	within 6 weeks
29	Remediation work raised from fire incident (FAL-33, Washing and Dyeing Finishing)	The factory is required to complete the remediation work as per RSC accepted drawing and timeline.	within 6 weeks
30	Discrepancies in as-built drawing (FAL-34).	The building engineer is required to survey the whole structure and produce as-built drawings as per actual site conditions.	within 6 weeks
31	Incomplete retrofitting works (FAL-34).	The building engineer is required to submit the EA report to RSC for review before starting the remediation work.	within 6 weeks
32	Incomplete retrofitting works (FAL-34).	Carry out suggested remedial works if required.	within 6 months
33	Corrosion on steel member (FAL-34).	Factory is required to remove rust and apply rust-proof paint on steel members.	within 6 weeks
34	Connection gap between connection plates (FAL-34).	The building engineer is required to fill the gaps with shim plate.	within 6 weeks
35	Incomplete retrofitting works (FAL-35).	The building engineer is required to submit an EA report to RSC for review prior to start the remediation work.	within 6 weeks
36	Incomplete retrofitting works (FAL-35).	Carry out suggested remedial works if required.	within 6 months
37	Lack of design documents (FAL-36).	The building engineer is required to carry out Engineering Assessment (EA) based on in-situ material strength and submit to RSC for review.	within 6 weeks
38	Lack of design documents (FAL-36).	Carry out suggested remedial works if required.	within 6 months
39	Discrepancies in as-built drawing (FAL-37).	The building engineer is required to survey the whole structure and produce as-built drawings as per actual site condition.	within 6 weeks

40	Incomplete retrofitting works (FAL-37).	The building engineer is required to submit an EA report to RSC for review prior to start the remediation work.	within 6 weeks
41	Incomplete retrofitting works (FAL-37).	Carry out suggested remedial works if required.	within 6 months
42	Absence of as bult drawing. (FAL 39- RCC water tank)	The building engineer is required to prepare accurate as-built drawings for the structure.	within 6 weeks
43	Lack of design report. (FAL 40- Medical & day care)	The building engineer is required to prepare a set of design documents in compliance with BNBC.	within 6 weeks
44	Lack of design report. (FAL 40- Medical & day care)	The building engineer is required to prepare a set of design documents including as built drawings, live load plan at roof and a design report based on in-situ material strength and software-based analysis which shall be prepared in compliance with section 1.9.1, part-6 of BNBC.	within 6 months
45	Inconsistency in drawing. (FAL 40- Medical & day care)	The building engineer is required to survey the whole structure and update the as-built drawings and perform Detail Engineering Assessment (DEA).	within 6 weeks
46	Inconsistency in drawing. (FAL 40- Medical & day care)	Carry out remedial work if required.	within 6 months
47	Lack of design report. (FAL 42- Dyeing Finishing)	The building engineer is required to prepare a set of design documents including as built drawings, live load plan at roof and a design report based on in-situ material strength and software-based analysis which shall be prepared in compliance with section 1.9.1, part-6 of BNBC.	within 6 weeks
48	Lack of design report. (FAL 42- Dyeing Finishing)	Carry out remedial work if required.	within 6 months
49	Discrepancies in as built drawings. (FAL 42- Dyeing Finishing)	The building engineer is required to survey the full structure and produce accurate as-built drawings.	within 6 weeks
50	Lack of design report (FAL-43).	The building engineer is required to prepare a design report based on in-situ material strength & software-based analysis and submit it to RSC for review.	within 6 weeks
51	Lack of design report (FAL-43).	Carry out suggested remedial works if required.	within 6 months
52	Discrepancies in as built drawings (FAL-43).	Building engineer is required prepare accurate as built drawings.	within 6 weeks

53	Inconsistency in soil test report (FAL-43).	The building engineer is required to carry out new soil tests according to BNBC requirements.	within 6 weeks
54	Cracks in brick wall of stairs at roof (FAL-43).	Building engineer is required to identify the reason of crack, take necessary remedial measure to repair the wall accordingly.	within 6 weeks
55	Cracks in beam of stairs at roof (FAL-43).	Building engineer is required to identify the reason of crack, prepare crack investigation report, and take necessary remedial measure to repair the crack as per the suggestion of building engineer.	within 6 weeks
56	Lack of design report (FAL-44).	The building engineer is required to prepare a design report based on in-situ material strength & software-based analysis and submit it to RSC for review.	within 6 weeks
57	Lack of design report (FAL-44).	Carry out remedial work if required.	within 6 months
58	Discrepancies in as built drawings (FAL-44).	The building engineer is required to prepare accurate as-built drawings based on actual site condition.	within 6 weeks
59	Distorted Steel Column (FAL-44).	Building engineer is required to identify the reason of crack, prepare investigation report, and take necessary remedial measure to repair the crack as per the suggestion of building engineer.	within 6 weeks
60	Distorted Steel Column (FAL-44).	Carry out remedial work if required.	within 6 months
61	Lack of design documents (FAL-45).	The building engineer is required to carry out Engineering Assessment (EA) based on in-situ material strength and submit to RSC for review.	within 6 weeks
62	Lack of design documents (FAL-45).	Carry out suggested remedial works if required.	within 6 months
63	Horizontal crack on brick wall (FAL-46).	The building engineer is required to identify the reason for the crack, take necessary remedial measure to repair the cracks accordingly.	within 6 weeks
64	Lack of design documents (FAL-47).	The building engineer is required to carry out Engineering Assessment (EA) based on in-situ material strength and submit to RSC for review.	within 6 weeks
65	Lack of design documents (FAL-47).	Carry out suggested remedial works if required.	within 6 months
66	Discrepancies in as-built drawing (FAL-48).	The building engineer is required to survey the whole structure and produce as-built drawings as per actual site condition.	within 6 weeks

67	Lack of design documents (FAL-48).	The building engineer is required to carry out Engineering Assessment (EA) based on in-situ material strength and submit to RSC for review.	within 6 weeks
68	Lack of design documents (FAL-48).	Carry out suggested remedial works if required.	within 6 months
69	Lack of design report. (FAL 49- Wearhouse)	The building engineer is required to prepare a set of design documents including as built drawings, live load plan at roof and a design report based on in-situ material strength and software-based analysis which shall be prepared in compliance with section 1.9.1, part-6 of BNBC.	within 6 weeks
70	Lack of design report. (FAL 49- Wearhouse)	Carry out remedial work if required.	within 6 months
71	Lack of design documents (FAL-50).	The building engineer is required to carry out Engineering Assessment (EA) based on in-situ material strength and submit to RSC for review.	within 6 weeks
72	Lack of design documents (FAL-50).	Carry out suggested remedial works if required.	within 6 months
73	Lack of design documents (FAL-51).	The building engineer is required to carry out Engineering Assessment (EA) based on in-situ material strength and submit to RSC for review.	within 6 weeks
74	Lack of design documents (FAL-51).	Carry out suggested remedial works if required.	within 6 months
75	Lack of design documents (FAL-52).	The building engineer is required to carry out Engineering Assessment (EA) based on in-situ material strength and submit to RSC for review.	within 6 weeks
76	Lack of design documents (FAL-52).	Carry out suggested remedial works if required.	within 6 months
77	Inconsistency in design report (FAL-53).	Building engineer is required to update the design report based on in-situ material strength, sub-surface condition and software-based analysis. Submit it to the RSC for review.	within 6 weeks
78	Inconsistency in design report (FAL-53).	Carry out remedial works if required.	within 6 months
79	Inconsistency in design report (FAL-54).	Building engineer is required to update the design report based on in-situ material strength, sub-surface condition and software-based analysis. Submit it to the RSC for review.	within 6 weeks

80	Inconsistency in design report (FAL-54).	Carry out remedial work if required.	within 6 months
81	Lack of design documents (FAL-55).	The building engineer is required to carry out Engineering Assessment (EA) based on in-situ material strength and submit to RSC for review.	within 6 weeks
82	Lack of design documents (FAL-55).	Carry out suggested remedial works if required.	within 6 months
83	Misalignment of wall bracing (FAL-55).	The building engineer is required to check the effect of misalignment of wall bracing or reinstall the bracing properly.	within 6 weeks
84	Bracing system is not symmetrical (FAL-56, Wastage Shed)	The building engineer is required to check the lateral stability of the shed.	within 6 weeks
85	Bracing system is not symmetrical (FAL-56, Wastage Shed)	Carry out remedial work if required.	within 6 months